



FIRE SERVICE

On-Campus Program Course Listing

***RECRUIT / FIREFIGHTER I – F100**

This eight-week program is designed to take the student from pre-service entry level to Firefighter I and covers all aspects of firefighting based on NFPA 1001: *Fire Fighter Professional Qualifications*, with the exception of emergency medical training. The student will participate in classroom instruction, nighttime response exercises and practical skills training including “live” fire scenarios. During the last week, eligible students may take the Tennessee Commission on Firefighting Personnel and Standard Education certification exam for Firefighter I.

<i>Course Hours:</i>	300
<i>Course Fee:</i>	\$345.00
<i>Food / Lodging Fee:</i>	\$30.00/night

*This course requires a high degree of physical fitness and the ability to cope with physically and mentally demanding situations.

***BASIC / LIVE FIREFIGHTING - F102**

This two-week program is designed to provide basic fire ground skills covered in selected sections of NFPA 1001: *Fire Fighter Professional Qualifications*, which meets the basic skill level for the student to participate in “live” fire training activities. The student will participate in classroom instruction and practical skills training including “live” fire scenarios. Volunteer and

other firefighters who are unable to attend longer programs would benefit from this condensed course.

Course Hours: 80
Course Fee: \$92.00
Food / Lodging Fee: \$30.00/night

*This course requires a high degree of physical fitness and the ability to cope with physically and mentally demanding situations.

***LIVE FIREFIGHTING - F110**

This course is designed to provide the student with practical application of the skills learned in FF100 - *Basic Firefighting*. This course incorporates a variety of practical training drills and scenarios including search and rescue, structural fire attack and exterior fires. "Live" fire training evolutions are included.

Course Hours: 22
Course Fee: \$25.00
Food / Lodging Fee: \$30.00/night
Prerequisite: *Basic Firefighting – FF100*

*This course requires a high degree of physical fitness and the ability to cope with physically and mentally demanding situations.

FIREFIGHTER II – F200

This four-week program is designed to take the student from the Firefighter I level to the advanced level of Firefighter II. This program meets or exceeds the *NFPA 1001: Firefighter Professional Qualifications*. The students will participate in classroom instruction, incident report writing, flammable liquid life fires, fire ground command, evidence preservation, vehicle extrication, pre-incident survey, equipment maintenance, fire hose test and fire hydrant testing. Students will receive instruction in Hazardous Materials at Operations Level, which meets the *NFPA 472: Professional Competence of Responder to Hazardous Materials Incidents*. During the last week, eligible students meeting commission requirements may take the Tennessee Commission on Firefighting Personnel and standard Education certification exam for firefighter II.

Course Hours: 150
Course Fee: \$175.00
Food / Lodging Fee: \$30.00/night
Prerequisites: *Certification as Firefighter I or have completed the following:
Recruit Firefighter I – F100 OR Basic Firefighting – FF100
and Live Firefighting – F110 OR Basic/Live Firefighting – F102*

FIRE APPARATUS DRIVER/OPERATOR (PUMP OPERATIONS 1) WEEK 1 - FA101

This is the first course in a three-part series designed to instruct the student in the basic theory and operating principles of fire service pumping apparatus meeting selected requirements of NFPA 1002: *Fire Apparatus Driver/Operator Professional Qualifications*. Key areas of the course include skill and practical exercises involving, type of apparatus and fire pumps, apparatus inspection and maintenance, fire hose nozzles and flow rates, and pressure calculations.

Course Hours: 30
Course Fee: \$98.00

FIRE APPARATUS DRIVER/OPERATOR (PUMP OPERATIONS 2) WEEK 2

- FA102

This is the second course in a three-part series designed to provide the student with hands-on practical training in the operation of fire service pumping apparatus. The course builds on the knowledge gained in Pump Operations I and meets selected requirements of NFPA 1002: *Fire Apparatus Driver/Operator Professional Qualifications*. Key areas of the course include foam equipment and systems, apparatus testing, operating fire pumps, static water supply sources, and water shuttle operations.

Course Hours: 30
Course Fee: \$98.00
Prerequisites: *Fire Apparatus Driver/Operator (Pump Operations 1) Week 1 – FA101*

FIRE APPARATUS DRIVER/OPERATOR (PUMP OPERATIONS 3) WEEK 3

- FA103

This is the third course in a three-part series designed to provide the student with hands-on practical driver training and relay pump operations meeting NFPA 1002: *Fire Apparatus Driver/Operator Professional Qualifications*. Key areas of the course include operating emergency vehicles, positioning apparatus and relay pumping.

Course Hours: 30
Course Fee: \$98.00
Prerequisites: *Fire Apparatus Driver/Operator (Pump Operations 1) Week 1 – FA101 AND Fire Apparatus Driver/Operator (Pump Operations 2) Week 2 – FA102*

PUMP MAINTENANCE - FA105

This course is designed to provide the student hands-on practical training in the repair and maintenance of fire pumps and pump accessory equipment. All procedures taught can normally be done in the fire station with appropriate training and equipment. Students will work in groups on actual in-service fire apparatus to repair, test and return fire service pumpers to service.

Course Hours: 30
Course Fee: \$98.00

DRIVER / OPERATOR AERIAL WEEK 1 - FA106

This course is the first in a two part series designed to instruct the student in the maintenance and operation of aerial apparatus. Course topics include types and construction of aerial apparatus, driving and tillering of aerial apparatus, positioning, stabilizing, and operating of telescoping and articulating. The course also covers the fundamentals of strategies and tactics for utilizing aerial apparatus on emergency scenes and provides the student with the ability to understand what to inspect and test. The course meets the *NFPA 1002: Fire Apparatus Driver/Operator Professional Qualifications, Chapter 4*.

Course Hours: 30
Course Fee: \$98.00

DRIVER / OPERATOR AERIAL WEEK 2 - FA107

This course is the second in a two part series designed to provide the student with hands-on practical training in the operation of fire service aerial apparatus. The course builds on the knowledge gained in Driver/Operator Aerial Week 1. The student will conduct practical training in preventative maintenance, positioning and driving the apparatus. The course meets the *NFPA 1002: Fire Apparatus Driver/Operator Professional Qualifications, Chapter 4*.

Course Hours: 30

Course Fee: \$98.00
Prerequisite: Driver / Operator Aerial Week 1 – FA106

SELF CONTAINED BREATHING APPARATUS MAINTENANCE AND REPAIR - FA121

This course is designed to familiarize the student with the basic maintenance and repair of self-contained breathing apparatus. The course includes the basic knowledge of several different brands of breathing apparatus, inspection of apparatus, field and shop maintenance activities and requirements and refilling procedures and standards. Student activities include lecture, demonstration and hands-on exercises.

Course Hours: 30
Course Fee: \$98.00

INCIPIENT FIRE BRIGADE - FI110

This course provides training for industrial fire brigade members who are assigned to incipient level fire brigades as defined by OSHA 29 CFR 1910.156: *Fire Brigades*. This course meets selected portions of OSHA 29 CFR 1910.156: *Fire Brigades* and NFPA 600: *Industrial Fire Brigades* standard that relates to incipient fire brigades. Key areas of the course include incipient fire brigade organization and responsibilities, fire behavior, fire extinguishers, handling operations, and incipient level fire training exercises.

Course Hours: 16
Course Fee: \$120.00

INTERIOR STRUCTURAL FIRE BRIGADE - FI120

This course is designed to provide basic level training for industrial fire brigades that have identified structural firefighting responsibility within their emergency action plan. It meets selected portions of OSHA 29 CFR 1910.156: *Fire Brigades*, and the NFPA 600: *Industrial Fire Brigades* standard. Key areas of the course include fire brigade organization and responsibilities, fire behavior, firefighting equipment, fire attack and rescue. "Live" fire training scenarios are a part of the program.

Course Hours: 32
Course Fee: \$320.00

ADVANCED EXTERIOR FIRE BRIGADE - FI130

This course is designed to provide basic level training for industrial fire brigades that have identified exterior fire fighting responsibility within their emergency plan. This course meets selected portions of OSHA 29 CFR 1910.156: *Fire Brigades* and NFPA 600: *Industrial Fire Brigades* standard. Key areas of the course include fire brigade organization and responsibilities, fire behavior, fire fighting equipment, exterior fire attack and operations, and flammable liquid and gas firefighting. "Live" fire training scenarios will be utilized as part of the training process to enhance student skills.

Course Hours: 24
Course Fee: \$240.00

FIRE BRIGADE LEADER - FI201

This course is designed to provide training in basic leadership and tactical skills for fire brigade personnel with leadership responsibilities and follows the guidelines referenced in OSHA 29 CFR 1910.156: *Fire Brigades*. Key areas of the course include fire brigade organization, leadership principles, strategy and tactics, and practical command scenarios. "Live" fire training scenarios are part of the training process to enhance student skills and demonstrate competency.

Course Hours: 24

Course Fee: \$240.00

FIRE INSTRUCTOR I - FO101

This course is designed to teach fire department instructor job responsibilities including skills to analyze training needs of a department and develop a comprehensive training program. The student will learn to construct behavioral objectives, perform job breakdowns, develop instructor guide sheets and develop and use visual aids. Out-of-class work and practical teaching assignments are used to practice and demonstrate instructional skill development. The course meets selected requirements of NFPA 1041: *Fire Service Instructor Professional Qualifications*. At the end of the course, eligible students may take the Tennessee Commission on Fire Fighting Personnel and Standard Education certification exam for Fire Instructor I.

Course Hours: 40
Course Fee: \$130.00

FIRE INSTRUCTOR II- FO102

This course provides information on how to design a course, determine course objectives, develop course outlines, select appropriate tests and supporting aid, and coordinate support for the course. The course emphasizes an approach that is oriented toward performance-base local training. Students identify a training need as a pre-course assignment. During class, the student will apply course principles to the design of a training package that meets the need for their particular jurisdiction. This course meets objectives of *NFPA 1041: Fire Service Instructor Professional Qualifications* for Fire Service Instructor II.

Course Hours: 40
Course Fee: \$130.00
Prerequisites: Fire Instructor I – FO101

FIRE OFFICER I: WEEK 1 - FO201

This course is directed toward fire service personnel currently serving as fire officers with fire ground responsibilities or those anticipating such responsibilities in the near future. The course identifies the fire officer's role as a supervisor, emphasizing planning, organizing, directing, coordinating and controlling. Subjects include discipline, motivation, public relations, training, and concentrates on human relationships: why people act and react the way they do. Class activities provide the student the ability to develop and enhance problem-solving skills. The course meets selected requirements of NFPA 1021: *Fire Officer Professional Qualifications*.

Course Hours: 30
Course Fee: \$98.00

FIRE OFFICER I: WEEK 2 - FO202

This course is designed to meet the needs of fire officers and crew leaders with management responsibilities of one or more companies in structural firefighting operations and is composed of two course modules. Module One is based on the National Fire Academy's -Managing Company Tactical Operations (MCTO): Preparation. Key areas covered in this section are preparation for response, decision-making, and tactical operations. Module Two is based on the National Fire Academy's - MCTO: Decision Making. Key areas covered in this section are command sequences, size-up, developing an action plan, and introduction to the incident command system. The course meets selected requirements of NFPA 1021: *Fire Officer Professional Qualifications*.

Course Hours: 30
Course Fee: \$98.00
Prerequisites: Fire Officer I: Week 1 – FO201

FIRE OFFICER I: WEEK 3 - FO203

This course is designed for fire officers and managers using incident command structure for fire and emergency operations to develop additional supervisory and management capabilities for structural fire operations. The course is composed of two course modules. Module One is based on the National Fire Academy's - Incident Command System (ICS) course. Key areas covered in this section are incident management systems, an overview of the structure and expandable nature of ICS, an understanding of command skills needed, and skill development through practical scenarios. Module Two is based on the National Fire Academy's - MCTO: Tactics. Key areas covered in this section are rescue, ventilation, fire attack, water supply, salvage, and overhaul. The course meets selected requirements of NFPA 1021: *Fire Officer Professional Qualifications*.

Course Hours: 30
Course Fee: \$98.00
Prerequisites: *Fire Officer I: Week 1 – FO201 AND Fire Officer I:
Week 2 – FO202*

FIRE OFFICER I: WEEK 4 - FO204

This course provides the student practical experience in fire attack pre-planning scenarios in positions of incident commander and company officer conducting fire ground operations on various fire situations using a fire attack simulator. This course meets selected requirements of NFPA 1021: *Fire Officer Professional Qualifications*.

Course Hours: 30
Course Fee: \$98.00
Prerequisites: *Fire Officer I: Week 1 – FO201 AND Fire Officer I:
Week 2 – FO202 AND Fire Officer I: Week 3 – FO203*

ISO FIRE DEPARTMENT GRADING PROCESS - FO210

The Fire Suppression Rating Schedule is the manual that the Insurance Services Offices (ISO) uses in reviewing the firefighting capabilities of your community. The schedule measures the major elements of a community's fire protection system and develops a numerical grading called a Public Protection Classification, commonly called your ISO rating. This course will familiarize students with the Fire Suppression Rating Schedule, allow the understanding of major elements used by ISO, prepare to make strategic operational and budgetary decisions on how to improve the Public Protection Class, and how to develop and implement a plan to improve the Public Protection Class for the community.

Course Hours: 24
Course Fee: \$78.00

BASIC FIRE ORIGIN OF CAUSE INVESTIGATION – FO220

This course provides the necessary entry-level training for fire service personnel to begin a career in fire investigation. The course is designed for firefighters, law enforcement officers or anyone charge with the responsibility by their department to investigate fires and explosions. The course covers every aspect of the investigation, from the initial fire investigation to the courtroom. Course subject areas include fire chemistry, ignition sources, fire spread, cause determination, interviewing evidence collection, motives and fatal fire scenes. As part of the course, the student investigator will demonstrate the skills learned in the course by investigation and documenting an actual fire scenario. This course meets selected requirements of *NFPA 1033: Standard for Professional Qualifications for Fire Investigator* and recommendations of *NFPA 921: Guide for Fire and Explosion Investigations*.

Course Hours: 40
Course Fee: \$130.00

ADVANCED ARSON DETECTION FOR FIREFIGHTERS AND FIRE OFFICERS – FO221

This course is designed to provide the firefighter and fire officer with the training necessary to become competent in fire origin and cause determination that is part of a fire officer's state mandated responsibility. The course is aimed at volunteer or small career fire departments that have limited investigative resources. Firefighters and/or fire officers should be able to: determine the origin of the fire; make the proper classification of the cause, documentation of findings, and notification to the local agency responsible for criminal investigations. Upon successful completion of this course, the student will be able to conduct fire investigations, and preserve and document the scene with a minimum of equipment and manpower.

Course Hours: 20
Course Fee: \$59.00
Prerequisite: Arson Detection for the First Responder – FF136 OR
Basic Fire Origin of Cause Investigation – FO220

FIRE INSPECTOR I - CF100

This course provides fire inspectors with the knowledge and skills needed to examine buildings and structures for compliance with fire codes. Topics include private fire protection systems, building construction, life safety codes, and inspection/enforcement methods.

Course Hours: 35
Course Fee: \$240.00

FIRE INSPECTOR II - CF101

This course concentrates on construction and inspection requirements, techniques and procedures, and the technical knowledge needed to assure that the minimum requirements are met. This is an advanced course dealing with complex construction and fire protection systems. Topics include protective systems and equipment, building fire safety, hazardous materials and special hazards.

Course Hours: 28
Course Fee: \$190.00
Prerequisites: Fire Inspector I – CF100

FIRE INVESTIGATOR - FP120

This course is designed for emergency personnel who have responsibility for investigating fires that occur within their legal jurisdiction. Key areas of the course include fire behavior, fire cause and determination, evidence collection, interviewing techniques, and court procedures. The course includes classroom lecture, demonstrations, hands-on practical assignments and scenarios, and meets selected objectives of NFPA 1033: *Professional Qualifications for Fire Investigators*.

Course Hours: 40
Course Fee: \$130.00

FIRE AND LIFE SAFETY EDUCATOR - FP130

This course is designed for those individuals who coordinate or assist their organization in public fire and life safety education. The course meets selected sections of NFPA 1035: *Professional Qualifications for Public Fire and Life Safety Educator*. Key areas include strategies for public fire and life safety education, community fire and injury prevention programs, resources, and development/implementation.

Course Hours: 40
Course Fee: \$130.00

SMOKE DIVER - FR100

This course is designed to develop maximum firefighter capabilities while working in protective breathing apparatus. The full potential of the firefighter and associated equipment is achieved in physically and mentally stressful situations. The course is mastered through performance-based objectives that each firefighter must complete. This course is designed for experienced firefighting personnel and requires a high degree of physical fitness and the ability to cope with physically and mentally demanding situations. Candidates must be in good physical condition.

Course Hours: 30
Course Fee: \$98.00

*This course requires a high degree of physical fitness and the ability to cope with physically and mentally demanding situations.

***HIGH ANGLE RESCUE - FR110**

This course is designed to teach the student the safe use of modern rope rescue techniques. Emphasis is placed on the safety of both the victim and the rescuer. Key areas of the course include knot craft, technical hardware and equipment, anchoring systems, lowering systems, rescue rappelling, and skill building through practical scenarios. This is a physically and mentally intense course and requires the student to work at heights, as well as from rope, in rappel and rescue situations.

Course Hours: 40
Course Fee: \$130.00

*This course requires a high degree of physical fitness and the ability to cope with physically and mentally demanding situations.

***CONFINED SPACE RESCUE - FR120**

This course is designed to instruct emergency service personnel in safe rescue techniques for confined space emergencies. Emphasis is placed on the safety of both the victim and the rescuer. Key areas of the course include OSHA 1910.146 regulations, equipment familiarization, confined space entry procedures, rescue techniques, and skill building through practical scenarios. This course is physically and mentally intense and requires the student to work at elevations and in confined spaces, as well as from rope, in rappel and rescue situations. Students should be mentally and physically prepared to meet this challenge when registering for this course.

Course Hours: 40
Course Fee: \$130.00

*This course requires a high degree of physical fitness and the ability to cope with physically and mentally demanding situations.

TENNESSEE FIRE INCIDENT REPORTING SYSTEMS (TFIRS) - FS100

This course provides the student with basic instruction regarding the philosophy of using TFIRS to document fire and other emergency incidents. Instruction enables students to successfully promote, support, and manage TFIRS data collection and entry. Course delivery includes standard lecture and hands-on computer data entry, retrieval, and analysis of results. No prior computer experience is required. Basic computer navigation and familiarization is part of the instruction.

Course Hours: 15
Course Fee: \$50.00

CRISIS INCIDENT STRESS MANAGEMENT (CISM): BASIC GROUP CRISIS INTERVENTION - FS110

This course prepares participants to understand a wide-range of crisis intervention services including pre-and post-incident crisis education, significant other support services, on-scene support services, crisis intervention for individuals, demobilizations after large-scale traumatic incidents, small group defusings and the group intervention known as Critical Incident Stress Debriefing (CISD). This course specifically prepares participants to provide several of these interventions, specifically demobilizations, defusings, and the basic interventions of CISD. At the completion of this course, participants will be able to: define stress, Critical Incident Stress (CIS) and Post Traumatic Stress Disorder (PTSD), list the 10 basic interventions of CISM and define and describe in detail the CISM group process of Demobilizations, Defusings and Debriefings.

Course Hours: 15
Course Fee: \$20.00

CRISIS INTERVENTION STRESS MANAGEMENT (CISM): INDIVIDUAL CRISIS INTERVENTION AND PEER SUPPORT - FS111

Crisis intervention is not psychotherapy; rather it is a specialized acute emergency mental health intervention that requires specialized training. This course is designed to teach participants the fundamentals of, and a specific protocol for, individual intervention. This class is structured for fire and emergency services, military and peer support personnel without formal training in mental health, which desire to increase their knowledge of individual (one on one) crisis intervention techniques.

Course Hours: 15
Course Fee: \$20.00

CRISIS INTERVENTION STRESS MANAGEMENT (CISM): ADVANCED GROUP CRISIS INTERVENTION- FS112

This training program is designed to provide the participants with the latest information on critical incident stress management techniques and post-trauma syndromes. The program emphasizes a broadening of the knowledge base concerning critical incident stress interventions as well as Post Traumatic Stress Disorder, which was established in the basic program and/or in publications. At the conclusion of this educational program, the participants will have been exposed to specific, proven strategies to intervene with those suffering the ill effects of their exposure to trauma. The emphasis is placed on advanced defusing and debriefings in complex situations.

Course Hours: 15
Course Fee: \$20.00

Note: All CISM course include textbooks and lunch.

TENNESSEE WEEKEND AT THE NATIONAL FIRE ACADEMY - FS200

The State Weekend Program offered at the National Fire Academy (NFA) is a unique educational opportunity for fire and rescue personnel from Tennessee to attend selected two-day NFA courses as a group. Priority for student enrollment is to mid-level officers as the target audiences identified by the NFA, but all applications are considered. The Tennessee Weekend is held each fall at the NFA in Emmitsburg, Maryland and is sponsored by the following organizations: National Fire Academy, TN State Fire Marshal's Office, TN Fire Service and Codes Enforcement Academy, TN Fire Chief's Association, TN Firemen's Association, TN Advisory Committee on Arson, and TN Public Fire and Life Safety Educator's Association. A separate announcement is mailed to Tennessee fire departments and includes registration and application procedures.

Course Hours: 16
Prerequisites: Must be 18 years of age with three years of fire service experience.

SMOKY MOUNTAIN WEEKEND - FS201

The program is a unique educational opportunity for fire and rescue personnel to attend selected two-day courses held for one weekend. The courses offered include classroom-based and hands-on training classes. Smoky Mountain Weekend is conducted each spring in Sevier County, TN and is jointly sponsored by the TN Fire Service and Codes Enforcement Academy, the Sevier County Fire Chief's Association and the Sevier County Training Officers Association. A separate announcement is mailed to Tennessee fire departments and includes all registration and application procedures.

NATIONAL FIRE ACADEMY (NFA) COURTROOM PREPARATION AND TESTIMONY FOR FIRST RESPONDERS – FS401

This course provides the necessary tools for all emergency responders who may be called upon for depositions and/or courtroom testimony relevant to facts witnessed upon arrival at a scene as a first responder. The course emphasizes the importance of reporting actual facts and addresses the need to improve report-writing skills after witnessing an event, and for the importance of oral presentation skills if asked to describe the event in a court of law. The course focuses on preparation of all emergency responders, with emphasis on volunteer firefighters, to present information to the legal system.

Course Hours: 15
Course Fee: \$25.00

TENNESSEE FEDERATION OF FIRE CHAPLAINS: BASIC EMERGENCY SERVICE CHAPLAINS ACADEMY – FS310 *

This course provides newly appointed fire, rescue, and EMS chaplains with the initial knowledge and skills needed to assume their role as a fire department or emergency services chaplain. Major topics include: new chaplain training and orientation, starting and maintaining a chaplain program, emergency service administration and public ceremonies, chaplain service within a pluralistic society, death and injury notification, introduction to the incident management system, safely working the emergency scene, emergency service funerals, and stress for emergency workers and their families. Additional course areas include: Introduction to Critical Incident Stress Management, the Public Safety Officer Benefits Program, employee assistance programs, HIPAA and confidentiality issues. This course fulfills the initial training requirements of Emergency Service Chaplain Certification under the Tennessee Federation of Fire Chaplains (TFFC) in conjunction with the Federation of Fire Chaplains (International).

Course Hours: 16
Course Fee: Contact TFFC at (865) 588-6994
Prerequisites: Participants must have completed membership in the Tennessee Federation of Fire Chaplains prior to start of course.

TENNESSEE FEDERATION OF FIRE CHAPLAINS: EMERGENCY SERVICE CHAPLAINS – SPECAILITY TRACT – FS320 *

This advanced training course for Emergency Service Chaplains is designed to provide additional skills and knowledge to improve the chaplain's abilities to deal with a wide variety of circumstances and issues related to their responsibilities as a fire or emergency service chaplain. Example course topics include: ethics, suicide intervention, crisis management, serving during special situations, safety, confidentiality, validation of chaplain service for government agencies,

Critical Incident Stress Management (CISM) and other curriculum related to the role of emergency service chaplainry. This course provides continuing education units that can be applied toward meeting the requirements for Advanced Emergency Service Chaplains certification.

Course Hours: 16
Course Fee: Contact TFFC at (865) 588-6994
Prerequisites: Participants must have completed the Tennessee Federation of Fire Chaplains: Basic Emergency Service Chaplains Academy

*Students interested in registering for these courses should contact TFFC Tennessee Fire Chaplains at (865) 588-6994 or e-mail Paul Trumpore at PNTrumpore@aol.com.

INSTRUCTIONAL TECHNIQUE FOR COMPANY OFFICERS – FF118

This course is designed to provide to the fire officer the ability to present company-training programs utilizing the four-step method of preparation, presentation, applications and testing, utilizing a prepared topic. Major topics covered during the course include: adults as learners, setting training objectives, using lesson plans, identifying resources, setting up classrooms, lectures, demonstrations, learning by doing, use of senses in retaining material, and designing and using checklists. Additional topics include supervision of skills practice, coaching guiding evaluating and testing.

Course Hours: 15
Course Fee: \$30.00

INCIDENT COMMAND SYSTEM – FF130

This 15-hour course is designed to allow the student to demonstrate the need for an organized approach to managing emergency incidents, to identify laws and standards requiring this approach, to identify the elements of an effective system, and evaluate his/her department's capabilities. Major topics covered in the course are the need for organized incident management, the laws and standards requiring same, the components of such a system, relationship between business management and incident management, the NFA model of such a system, and other examples of incident management systems.

Course Hours: 15
Course Fee: *\$30.00

**Emergency Response to Terrorism Course fees are currently covered through federal grant funding and are offered at no cost to Tennessee emergency personnel.*

ARSON DETECTION FOR THE FIRST RESPONDER – FF136

This 15-hour course is designed to enable the student to recognize the indicators of an intentionally set fire, preserve evidence, report the information to the appropriate office, know the role of a first responder, and that the role is not to determine cause and origin of the fire. Major topics include fire behavior, critical observations of the first responder, fire cause, scene security and evidence preservation, legal consideration, and reporting of findings.

Course Hours: 15
Course Fee: *\$30.00

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HEALTH AND SAFETY OFFICER – FF147

This course is designed to examine the health and safety officer's role in identifying, evaluating, and implementing policies and procedures that affect the safety and health of emergency responders. Major topics covered in this course are the role of the safety and health officer, the laws, standards and regulations, health maintenance, accident prevention investigation, and post-incident examination.

Course Hours: 15
Course Fee: \$30.00

INCIDENT SAFETY OFFICER – FF152

This course examines the Safety Officer's role at emergency response situations. A specific focus on operations within an Incident Command System (ICS) as a Safety Officer is a main theme. The student will be able to identify and analyze concerns as they relate to all-hazards scene evaluation, and communicate recommended solutions to the command authority.

Course Hours: 15
Course Fee: \$30.00

PUBLIC FIRE EDUCATOR – FF157

This course is designed for those individuals who coordinate or assist their organization in public fire and life safety education. The course meets selected sections of *NFPA 1035: Professional Qualifications for Public Fire and Life safety Educator*. Key areas include strategies for public fire and life safety education, development and implementation, community fire and injury prevention programs, and resources.

Course Hours: 15
Course Fee: \$30.00

***RAPID INTERVENTION TEAM OPERATIONS – FF159**

This newly revised 30-hour course is a comprehensive program designed to prepare experienced firefighters for the difficult job of rescuing other firefighters from a structure fire incident. The course emphasizes the importance of Rapid Intervention Teams (DIT) being composed of veteran, well trained, and physically fit firefighters. Major course topics include: MAY-DAY procedures; Rapid Intervention Team search techniques; downed firefighter assessment; air changeover procedures; drags and carries; extrication; 2:1 lowering systems; sub-level rescues; ladder rescues; the "Denver" drill; the "Pittsburgh" drill; communications; and accountability. The first four hours of the class are classroom with the remaining 16-hours consisting of hands-on practical training.

Course Hours: 30
Course Fee: \$100.00
Prerequisites: Smoke Divers – FR100 OR SCBA Using It – FA121

*This course requires a high degree of physical fitness and the ability to cope with physically and mentally demanding situations.

INITIAL RESPONSE TO HAZARDOUS MATERIAL INCIDENTS: BASIC CONCEPTS – FF141

This course is designed to provide the first responder with the basic concepts and techniques for appropriate behavior before, during and after the hazardous materials incident. Major topics covered in the course are introduction, regulations and standards, personal safety, toxicology, site management and scene set-up, personal protective equipment, decontamination, and resources.

Course Hours: 15
Course Fee: *\$30.00

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INITIAL RESPONSE TO HAZARDOUS MATERIAL INCIDENTS: CONCEPT IMPLEMENTATION – FF142

This course is designed to give the first responder an understanding of the basic steps of a systematic process for a safe and appropriate response to hazardous materials incidents including identifying the types, uses, and sources of information needed to recognize and identify the hazard, and identifying the basic options, requirements, and limitation of the methods used to control, contain, or confine a hazardous materials incident. Major topics covered in the course are estimating the potential course and harm of the incident, determining strategic goals, assessing tactical options, and planning and implementing actions, examinations, and reviews.

Course Hours: 15
Course Fee: *\$30.00

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EMERGENCY RESPONSE TO TERRORISM: BASIC CONCEPTS – FF144

This course is designed to prepare first responder personnel to take the appropriate course of action at the scene of a potential terrorist incident. Major topics for this course include understanding and recognizing terrorism, defensive considerations, command and control issues, self-protective measures, scene security, notifications, and smooth transition from emergency to recovery to termination operations.

Course Hours: 15
Course Fee: *\$30.00

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INITIAL RESPONSE TO TERRORISM FOR COMPANY OFFICERS – FF145

This course is designed to provide first-on-the-scene supervisors with the necessary knowledge and skills to establish initial command of emergencies involving potential terrorism events. This course builds upon the existing knowledge and skills obtained in the *Emergency Response to Terrorism: Basic Concepts* course. Students must have a working knowledge of the Incident Command System (ICS). Major topics covered in this course are recognition of the signs of terrorism, scene security, use of the incident command system, unusual circumstances related to terrorist activities, self-protection, and information search.

Course Hours: 15
Course Fee: *\$30.00

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EMERGENCY RESPONSE TO TERRORISM: TACTICAL CONSIDERATIONS FOR HAZARDOUS MATERIALS – FF153

This course is designed for the first responding hazardous materials technician or persons who have the responsibility of developing initial hazardous materials tactical considerations. The students will be trained in security considerations, identifying signs of terrorism, anticipating unusual response circumstances, assessing information, and initiating self-protection actions. They also will apply their knowledge about responding to a terrorist event, managing site safety, documenting the event and debriefing personnel.

Course Hours: 15
Course Fee: *\$30.00

**Emergency Response to Terrorism Course fees are currently covered through federal grant funding and are offered at no cost to Tennessee emergency personnel.*

EMERGENCY RESPONSE TO TERRORISM: WEAPONS OF MASS DESTRUCTION – FF155

This course is design to provide the student with the knowledge required to identify the signs of weapons of mass destructions before and after the incident. Major topics covered are potential harm of the incident, determining strategic goals, assessing tactical options, and planning and implementing actions, examinations, and reviews of the incident.

Course Hours: 15
Course Fee: *\$30.00

**Emergency Response to Terrorism Course fees are currently covered through federal grant funding and are offered at no cost to Tennessee emergency personnel.*

EMERGENCY RESPONSE TO TERRORISM: TACTICAL CONSIDERATIONS FOR EMERGENCY MEDICAL SERVICES – FF163

This course is designed for the first on-the-scene responding EMS personnel with the responsibility to render patient care to victims of potential terrorist incidents. The student will be trained in security considerations, identifying signs of terrorism, anticipating unusual response circumstances, assessing information, and initiating self-protection actions. The student will be able to apply their knowledge of terrorist event response procedures as it relates to: providing patient care, identifying and preserving evidence, managing site safety, documenting the event, and debriefing personnel.

Course Hours: 15
Course Fee: *\$30.00

**Emergency Response to Terrorism Course fees are currently covered through federal grant funding and are offered at no cost to Tennessee emergency personnel.*

EMERGENCY RESPONSE TO TERRORISM: STRATEGIC CONSIDERATIONS FOR COMMAND OFFICERS – FF164

This course is designed for the senior-level officer(s) who may be responsible for command of incidents involving terrorism. This course is intended to build upon existing skills as an Incident Commander and knowledge of terrorism from professional experience or from the *Emergency Response to Terrorism: Basic Concepts (ERT: BC)* or *Emergency Response to Terrorism: Self-Study (ERT: SS)* courses. The class will assist the command officer in preparing an effective response to the consequences of terrorism. For the response to be effective, plans must be in place to guide responders in managing the incident. Incident Commanders must be prepared to operate as part of a multi-agency, multi-discipline, and multi-jurisdictional response. To address the command and control challenges that likely will confront the Incident Commander; the class consists of lecture supported by case studies and practice scenarios. This will enable the students to apply their knowledge of pre-incident planning, managing emergency incidents, and operating as part of a Unified Command structure.

Course Hours: 15
Course Fee: *\$30.00

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FIRE SERVICE

Regional Course Listing

BASIC FIREFIGHTING – FF100

This course is designed to provide basic fire ground skills necessary to operate and perform on the fire ground. The program is geared to volunteer firefighters and others who are unable to attend longer duration programs. The course covers selected sections of NFPA 1001: *Fire Fighter Professional Qualifications* meeting the basic skill level for the student to participate in “live” fire fighting training activities. This course is a pre-requisite for students who wish to attend the 22-hour FF101 - Live Firefighting course at the Academy.

The student will receive a certificate for Basic Firefighting upon successful completion of written and practical testing.

Course Hours: 58
Course Fee: \$67.00

LIVE FIREFIGHTING AT TFACA – FF101

This course is designed to provide the student with a practical application of the skills learned in *Basic Firefighting - FF100*, and is taught at the TFACA campus. The course incorporates a variety of practical training drills and scenarios including search and rescue, structural fire attack and exterior fires. “Live” fire training evolutions are included as part of this program.

Course Hours: 22
Course Fee: \$25.00
Food/Lodging Fee: \$30.00 per night
Prerequisite: Basic Firefighting – FF100 completed within the past 12 months OR attended the following: Basic/Live Firefighting – FF102, Recruit/Firefighter I – F100, Live Firefighting – F110, Live Firefighting – FF101 completed within the past 24 months OR Basic Firefighter Refresher – F150 completed within the past 12 months.

REGIONAL COURSE DEPARTMENT SPECIFIC – FF110

This category is utilized for subject areas that are not covered in the established courses. TFCA Regional Instructors can provide a variety of fire service training topics that can be tailored specific to the fire departments training needs. Fire departments interested in specialized training topics taught in their department should contact their TFCA Regional Instructor for further information on arranging a specific class.

Course Hours: Varies -dependant on number of students
Course Fee: \$2.00 per hour, per student

INTRODUCTION TO FIRE DEPARTMENT PUMPERS – FF111

This course is designed to familiarize the student with the basic operation of fire department pumper apparatus. Course subject areas include types of pumps, pump operation, pump

accessories, daily maintenance, and simplified fire ground hydraulic calculations. Classroom activities and practical application is included as part of the course.

Course Hours: 15
Course Fee: \$30.00

PUMPER HYDRAULICS – FF112

This course is designed to familiarize the student with fire service hydraulic calculations for use in the operation of fire department pumpers. The course includes theory of fire service hydraulics, hydraulic formulas and calculations, and practical work exercises.

Course Hours: 15
Course Fee: \$30.00

ISO AND TANKER OPERATIONS – FF113

This course ranges in length from 15 to 57 hours depending on the particular equipment and situation of the specific fire department. The course covers the Insurance Service Office (ISO) grading schedule and requirements for tanker shuttle water supply, water supply calculations, basic tanker operations, and water shuttling. Both classroom and practical hands-on training are incorporated in the course.

Course Hours: 15 to 57
Course Fee: \$2.00 per student, per hour

SELF-CONTAINED BREATHING APPARATUS (SCBA) – USING IT – FF114

This course is designed to provide the fire department personnel with the basic knowledge and skills to safely utilize fire service self-contained breathing apparatus (SCBA). The course subject areas include understanding hazardous atmospheres and the need for SCBA, types of SCBA, donning, basic use, return to service, and inspection/basic maintenance.

Course Hours: 21
Course Fee: \$42.00

EMERGENCY VEHICLE DRIVER TRAINING – FF115

This course is designed to teach the student the basics of safe driving of emergency response vehicles. The course is taught with the Volunteer Fire Insurance Services (VFIS) Emergency Vehicle Driver Training package. The course includes classroom instruction along with practical driver training exercises using the fire departments apparatus. An appropriate driver training area and fire apparatus must be provided by the fire department for the practical exercises.

Course Hours: 8-average, dependent on number of students
Course Fee: \$2.00 per student, per hour

STRATEGY AND TACTICS – FF116

This program is designed to teach the student the basic principles of strategy and tactics used in fire service emergency operations. The course subject areas include size-up, developing strategy and tactical plans, fire ground command, resource deployment, and practical exercises.

Course Hours: 18
Course Fee: \$36.00

***FLAMMABLE GAS FIREFIGHTING TACTICS – FF117**

This course ranges in length from 8 to 12 hours depending on fire department needs and available activities. The course is designed to familiarize the student with the specialized strategy and tactics required to safely handle flammable gas emergencies. Key areas of the course

include flammable gas characteristics and hazards, strategy & tactics for fire and non-fire events, fire attack, and "live" firefighting scenarios.

Course Hours: 8-12 dependent on number of students
Course Fee: Basic Fire - FF AND Live Fire Fighting - FF

*This course requires a high degree of physical fitness and the ability to cope with physically and mentally demanding situations.

INSTRUCTIONAL TECHNIQUES FOR COMPANY OFFICERS – FF118

This course is designed to provide to the fire officer the ability to present company-training programs utilizing the four-step method of preparation, presentation, application, and testing utilizing a prepared topic. Major topics covered during the course include adults as learners, setting training objectives, using lesson plans, identifying resources, setting up classrooms, lectures, demonstrations, learning by doing, use of senses in retaining material, designing and using checklists, supervision of skills practice, coaching, guiding, evaluating, and testing.

Course Hours: 15
Course Fee: \$30.00

CONDUCTING BASIC FIRE PREVENTION INSPECTIONS – FF119

This course is designed to provide the student with the basic knowledge necessary to conduct fire prevention inspections and to recognize potential hazards. Major topics in the course include purpose of codes, building, fire, fire prevention, and fire model codes, authority and responsibility, reports and record keeping; preparing for and conducting the inspection, basic fire safety concepts, common heating and cooking hazards, automatic sprinkler systems, and protective signaling devices.

Course Hours: 16
Course Fee: \$32.00

BUILDING CONSTRUCTION I – FF120

This course is designed to enable the student to cite key features of non-combustible or fire-resistive buildings that may affect emergency operations. Fire and life safety concerns that exist in non-combustible and fire resistive structures are studied. Major topics covered in the course are the key features of non-combustible or fire-resistive structures that affect emergency operations, fire behaviors of steel and concrete are presented so that the effect of their presence in non-combustible or fire-resistive structures may be better anticipated, principles of fire spread, products of combustion, special problems with finishes and building elements, and the unique problems of conducting emergency operations in buildings under construction are studied.

Course Hours: 15
Course Fee: \$30.00

BUILDING CONSTRUCTION II – FF121

This course is designed to enable the student to recognize construction types, design, alteration consequences, materials used, and their influence on the building's reaction to fire in wood and ordinary construction structures. In a tactical situation construction features and resultant potential hazards to fire fighters are studied. Major topics covered in the course are information of how construction type alterations, design, and materials influence a building's reaction to fire, principles of "fire ground" reading of a building and the value of relevant advance information about buildings are explained; building stability and resistance to fire; special hazards to firefighters and construction elements; and the determination of likely paths of fire extension.

Course Hours: 15
Course Fee: \$30.00

Prerequisite: *Building Construction I – FF120*

VOLUNTEER FIRE SERVICE MANAGEMENT – FF122

This course is designed to provide volunteer fire department officers with an introduction to a practical management-training program that will allow them to apply management concepts and principles to the real world of management of their organization. Major topics covered in the course are handling problems by defining, analyzing, acting, and looking for results; authority and persuasion methods of influence; adapting between authority and persuasion; limitations of authority; role relationships; Theory X & Y; motivation; Maslow's Hierarchy of Needs; planning, organizing, and controlling; and developing policies and procedures.

Course Hours: 15
Course Fee: \$30.00

LEADERSHIP I: STRATEGIES FOR COMPANY SUCCESS – FF123

This course is designed to provide the student with leadership skills of mid-level managers, especially fire company officers. Major topics covered in the course are decision-making, problem solving, brainstorming, meeting management, and understanding the relationship between resources and services provided by a fire company.

Course Hours: 15
Course Fee: \$30.00

LEADERSHIP II: STRATEGIES FOR PERSONAL SUCCESS – FF124

This course is designed to provide the student with an understanding of leadership skills and tasks associated with management of multiple roles of managers, ethics, abuse of power, and personal creativity. Major topics covered in the course are ethics, role conflict, fostering creativity and innovation in fire service organizations, and power.

Course Hours: 15
Course Fee: \$30.00
Prerequisite: *Leadership I: Strategies for Company Success – FF123*

LEADERSHIP III: STRATEGIES FOR SUPERVISORY SUCCESS – FF125

This course is designed to provide the student with an understanding of basic leadership skills related to supervision of personnel. Major topics covered in the course are situational leadership, delegation, coaching, and use of discipline to correct improper employee behavior.

Course Hours: 15
Course Fee: \$30.00
Prerequisite: *Leadership I: Strategies for Company Success – FF123 AND Leadership II: Strategies for Personal Success – FF124*

FIRE SERVICE SUPERVISION: INCREASING TEAM EFFECTIVENESS – FF126

This course is designed to introduce the fire service managers and supervisors to basic skills and techniques that will improve their ability to relate to others in the work environment. Fire service managers will be expected to incorporate the principles of team building in their daily jobs. Major topics covered in the course are team leader's needs of fire service supervisors and program managers, manager's interpersonal skills, motivation, interpersonal communications, counseling, group dynamics, and conflict resolution.

Course Hours: 15
Course Fee: \$30.00

FIRE SERVICE SUPERVISION: INCREASING PERSONAL EFFECTIVENESS – FF127

This course is designed to provide fire service managers and supervisors with basic supervisory skills and techniques that will improve their effectiveness as key leaders. Major topics covered in the course are basic skills and techniques that will assist the individual in improving his/her personal effectiveness, management culture, leadership managerial style and personal performance, time management, stress management, and personal professional development planning.

Course Hours: 15
Course Fee: \$30.00
Prerequisite: *Fire Service Supervision: Increasing Team Effectiveness – FF126*

PREPARING FOR INCIDENT COMMAND – FF128

This course is first in the National Fire Academy's Incident Command series and is designed to prepare the fire officer for the fire ground decision-making role by stressing those factors that should be addressed before the situation. Major topics include fire behavior, safety concerns, fire loading and fire flow requirements, and pre-planning.

Course Hours: 15
Course Fee: \$30.00

COMMANDING THE INITIAL RESPONSE – FF129

This course is second in the National Fire Academy's Incident Command series, and is designed to concentrate on developing and implementing an incident action plan. Emergency planning, strategy, goals and objectives, resource assignments, and accountability methods are discussed in defining the fire officer's role on the fire ground.

Course Hours: 15
Course Fee: \$30.00

INCIDENT COMMAND SYSTEM – FF130

This course is designed to allow the student to demonstrate the need for an organized approach to managing emergency incidents, to identify laws and standards requiring this approach, to identify the elements of an effective system, and evaluate his/her department's capabilities. Major topics covered in the course are the need for organized incident management, the laws and standards requiring same, the components of such a system, relationship between business management and incident management, the NFA model of such a system, and other examples of incident management systems.

Course Hours: 15
Course Fee: \$30.00

MANAGING COMPANY TACTICAL OPERATIONS (MCTO): PREPARATION – FF131

This course is designed to provide the new or prospective fire officer with the basic skills and knowledge necessary to manage one or more fire companies in structural fire fighting operations. Major topics covered in the course are roles and responsibilities of the fire company officer, personal readiness, company readiness, departmental readiness, operational communications, building construction and fire behavior, and pre-incident preparation.

Course Hours: 15
Course Fee: \$30.00

MANAGING COMPANY TACTICAL OPERATIONS (MCTO): DECISION MAKING – FF132

This course is designed to provide the new or prospective fire officer with a framework for effective structural fire fighting decision-making and tactical organization. Major topics covered are the command sequence, size-up, developing an action plan, and introduction to incident command.

Course Hours: 15
Course Fee: \$30.00

MANAGING COMPANY TACTICAL OPERATIONS (MCTO): TACTICS – FF133

This course is designed to provide senior or acting company officers with the knowledge and skills needed to accomplish assigned tactics at a structural fire emergency. Major topics covered in the course are introduction to managing company tactical operations; ventilation and rescue; fire confinement and extinguishment; water supply and exposure protection; salvage, overhaul, and support activities; and private dwelling simulations.

Course Hours: 15
Course Fee: \$30.00

FIREFIGHTER SAFETY AND SURVIVAL: THE COMPANY OFFICER'S RESPONSIBILITY – FF134

This course is designed to provide the student with an appreciation of the seriousness of the firefighter injury and death problems and to provide an awareness of techniques for reducing injuries and deaths. Major topics covered in the course are an explanation of firefighter injuries and deaths, firefighter health and fitness, safety in training, station and response preparation safety, incident safety, post-incident safety, and survival tips.

Course Hours: 15
Course Fee: \$30.00

FIREFIGHTER SAFETY AND SURVIVAL: PROGRAM IMPLEMENTATION AND MANAGEMENT – FF135

This course is designed to provide the student with an understanding of general health and safety guidelines and practices needed by firefighters. Major topics covered in the course are safety as an attitude, developing a health and safety program, laws, standards and regulations, health maintenance and physical fitness, stress, emergency scene safety, and safety investigation.

Course Hours: 15
Course Fee: \$30.00

ARSON DETECTION FOR THE FIRST RESPONDER – FF136

This 15-hour course is designed to enable the student to recognize the indicators of an intentionally set fire, preserve evidence, report the information to the appropriate office, know the role of a first responder, and that the role is not to determine cause and origin of the fire. Major topics include fire behavior, critical observations of the first responder, fire cause, scene security and evidence preservation, legal consideration, and reporting of findings.

Course Hours: 15
Course Fee: \$30.00

FIRE ARSON DETECTION – FF137

This course is designed to educate company officers and senior firefighters in the basic of fire origin and cause, including interviewing of witnesses. Major topics include defining arson, understanding the impact of arson, developing the proper mind set, on-scene collection of information and listening, initiating an investigation, defining fire, explaining the fire tetrahedron, fuel loading, fire ignition and fire patterns, understanding motives, stereotypes, the use of fire

laws, proper observation while enroute, on-scene interior and exterior for structures and vehicles, wildland arson problems, burn indicators and causes, investigative responsibility, evidence preservation, scene security, note taking and court demeanor.

Course Hours: 15
Course Fee: \$30.00

INTRODUCTION TO WILDLAND FIREFIGHTING FOR STRUCTURAL COMPANY OFFICERS – FF138

This course is designed to identify safe and effective strategy and tactics to minimize harm presented by wildland fires to urban interface. Major topics covered in this course are sizing up the urban wildfire, triage of structures, safety in the urban interface, initial strategy and action, assessment of the action plan, tactics, and public relations and follow up of the incident.

Course Hours: 15
Course Fee: \$30.00

RECOGNIZING AND IDENTIFYING HAZARDOUS MATERIALS – FF139

This course is designed to provide the student with an opportunity to gain an insight into the methods of identifying hazardous materials. Major topics covered in this course are the definition of hazardous materials, and recognizing signs, symptoms and clues for detecting the presence of hazardous materials.

Course Hours: 15
Course Fee: \$30.00

HAZARDOUS MATERIALS INCIDENT ANALYSIS – FF140

This course is designed to provide the student with the knowledge required for effective analysis of a hazardous materials incident. Major topics covered in the course are the definition of hazardous materials, hazardous material emergencies and their outcomes, potentially dangerous assumptions, estimating likely harm, event analysis, and characteristics and behavior of hazardous materials.

Course Hours: 15
Course Fee: \$30.00

INITIAL RESPONSE TO HAZARDOUS MATERIALS INCIDENTS: BASIC CONCEPTS – FF141

This course is designed to provide the first responder with the basic concepts and techniques for appropriate behavior before, during and after the hazardous materials incident. Major topics covered in the course are introduction, regulations and standards, personal safety, toxicology, site management and scene set-up, personal protective equipment, decontamination, and resources.

Course Hours: 15
Course Fee: \$30.00

INITIAL RESPONSE TO HAZARDOUS MATERIALS INCIDENTS: CONCEPT IMPLEMENTATION – FF142

This course is designed to give the first responder an understanding of the basic steps of a systematic process for a safe and appropriate response to hazardous materials incidents including identifying the types, uses, and sources of information needed to recognize and identify the hazard, and identifying the basic options, requirements, and limitation of the methods used to control, contain, or confine a hazardous materials incident. Major topics covered in the course are estimating the potential course and harm of the incident, determining strategic goals, assessing tactical options, and planning and implementing actions, examinations, and reviews.

Course Hours: 15
Course Fee: \$30.00
Prerequisite: *Initial Response to Hazardous Materials Incidents: Basic concepts – FF141*

PESTICIDE EMERGENCIES – FF143

This course is designed to provide local emergency responders with the knowledge to handle a pesticide fire or spill safely. Major topics covered in the course include different skills, tactics, and knowledge required for pesticide emergencies, importance of pesticide label definitions of pesticide, fungicide, insecticide, herbicide, and rodenticide, how pesticides enter the body, signs, symptoms, and treatment of pesticide poisoning, precautions, information resources, environmental pollution, incident command, spill control, fire control, decontamination, and pre-emergency planning.

Course Hours: 15
Course Fee: \$30.00

EMERGENCY RESPONSE TO TERRORISM: BASIC CONCEPTS – FF144

This course is designed to prepare first responder personnel to take the appropriate course of action at the scene of a potential terrorist incident. Major topics for this course include understanding and recognizing terrorism, defensive considerations, command and control issues, self-protective measures, scene security, notifications, and smooth transition from emergency to recovery to termination operations.

Course Hours: 15
Course Fee: *\$30.00

**Emergency Response to Terrorism Course fees are currently covered through federal grant funding and are offered at no cost to Tennessee emergency personnel.*

INITIAL RESPONSE TO TERRORISM FOR COMPANY OFFICERS – FF145

This course is designed to provide first-on-the-scene supervisors with the necessary knowledge and skills to establish initial command of emergencies involving potential terrorism events. This course builds upon the existing knowledge and skills obtained in the *Emergency Response to Terrorism: Basic Concepts* course. Students must have a working knowledge of the Incident Command System (ICS). Major topics covered in this course are recognition of the signs of terrorism, scene security, use of the incident command system, unusual circumstances related to terrorist activities, self-protection, and information search.

Course Hours: 15
Course Fee: *\$30.00

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BASIC LIFE SUPPORT AND HAZARDOUS MATERIALS RESPONSE – FF146

This course is designed to provide an overview of critical concerns for emergency medical responders at hazardous materials incidents, including toxicological aspects associated with hazardous material incident response. Major topics covered during this course are safety issues for EMS-hazardous material response teams, managing contaminated victims, decontaminating and treatment procedures at basic life support level, transportation and receiving facilities, and compliance/understanding of federal regulations regarding hazardous materials response.

Course Hours: 15
Course Fee: 30.00

HEALTH AND SAFETY OFFICER – FF147

This course is designed to examine the health and safety officer's role in identifying, evaluating, and implementing policy and procedures that affect the safety and health of emergency responders. Major topics covered during this course are the role of the safety and health officer, the laws, standards, and regulations, health maintenance, accident investigation, and post-incident examination.

Course Hours: 18
Course Fee: \$32.00

MANAGING IN A CHANGING ENVIRONMENT – FF148

This course is designed to develop strategies for managing with a changing economic, social, cultural, political, and technological environment. Major topics presented during the course include economic influences, trends, and conditions, influential social factors, legal impacts on the function of the organization, political environment, trends, condition, and influences, technological changes and new technologies.

Course Hours: 15
Course Fee: \$30.00

SHAPING THE FUTURE – FF149

This course is designed to identify creative approaches to problems, create group problem-solving methods, quantify problems and solutions, and develop strategies to implement change. Major topics include utilizing the environmental scanning process to identify existing or potential organizational problems, analyzing the effect of paradigms on creative problem identification, bench marking, barriers to creativity, quantifying problems, cost-benefit, resistance to change, agents for change, and implementing change.

Course Hours: 15
Course Fee: \$30.00

BASIC FIREFIGHTING REFRESHER – FF150

This course is designed to provide refresher training in basic fire ground skills necessary to operate and perform on the fire ground. The program is geared for fire service personnel who have previously completed *FF-100 – Basic Firefighting* or *F102 – Basic/Live Firefighting* and *F110* or *FF101 – Live Firefighting* courses at TFACA. The course reviews selected sections of NFPA 1001: Fire Fighter Professional Qualifications meeting the basic skills level for the student to participate in "live" firefighting training activities.

Course Hours: 15
Course Fee: \$30.00

VENTILATION – FF151

This course is designed to educate firefighters and officers in basic and advanced ventilation techniques used in structural fire fighting operations. The course covers natural and mechanical ventilation methodology with emphasis on the latest techniques and concepts including positive pressure ventilation. The class includes lecture, demonstration, and hands-on student activities.

Course Hours: 15
Course Fee: \$30.00

INCIDENT SAFETY OFFICER – FF152

This course examines the Safety Officer's role at emergency response situations. A specific focus on operations within an Incident Command System (ICS) as a Safety Officer is a main theme. The student will be able to identify and analyze concerns as they relate to all-hazards scene evaluation, and communicate recommended solutions to the command authority.

Course Hours: 15
Course Fee: \$30.00

EMERGENCY RESPONSE TO TERRORISM: TACTICAL CONSIDERATIONS HAZARDOUS MATERIALS – FF153

This course is designed for the first responding hazardous materials technician or persons who have the responsibility of developing initial hazardous materials tactical considerations. The students will be trained in security considerations, identifying signs of terrorism, anticipating unusual response circumstances, assessing information, and initiating self-protection actions. They also will apply their knowledge about responding to a terrorist event, managing site safety, documenting the event and debriefing personnel.

Course prerequisites are the completion of the following courses: *FF140 Hazardous Materials Incident Analysis* or *FF141 Initial Response to Hazardous Materials Incidents: Basic Concepts*, and either the *FF144 Emergency Response to Terrorism: Basic Concepts* or the *FF145 Initial Response to Terrorism: Company Officer*.

Course Hours: 15
Course Fee: *\$30.00

**Emergency Response to Terrorism Course fees are currently covered through federal grant funding and are offered at no cost to Tennessee emergency personnel.*

WEAPONS OF MASS DESTRUCTION – FF155

This course is design to provide the student with the knowledge required to identify the signs of weapons of mass destructions before and after the incident. Major topics covered are potential harm of the incident, determining strategic goals, assessing tactical options, and planning and implementing actions, examinations, and reviews of the incident.

Course Hours: 15
Course Fee: *\$30.00

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INCIDENT COMMAND SYSTEM FOR STRUCTURAL COLLAPSE INCIDENTS - FF156

This course is designed to provide fire officers with an understanding of command operations at structural collapse incidents. Students completing this course will be able to: describe the aspects of a structural collapse; explain basic command procedures and the ICS organizational structure; identify critical factors and issues that affect scene management; describe unique operational considerations; describe response operations phases; describe the technical rescue expertise and equipment required for safe operations and effective incident management. Students attending should understand and be able to apply the Incident Command System concept. This course is geared toward fire command officers.

Course Hours: 15
Course Fee: \$30.00

PUBLIC FIRE EDUCATION – FF157

This course is designed for those individuals who coordinate or assist their organization in public fire and life safety education. The course meets selected sections of NFPA 1035: *Professional Qualifications for Public Fire and Life Safety Educator*. Key areas of the course include strategies for public fire and life safety education, community fire and injury prevention programs, resources, and development and implementation.

Course Hours: 15
Course Fee: \$30.00

INSPECTION FOR COMPANY OFFICER – INTRODUCTION TO FIRE INSPECTION PRINCIPLES AND PRACTICES – FF158

This course will provide an introduction to fire inspection principles and practices' illustrating the complexity of today's building designs and systems and their potential impact on life, the environment, and property. This course considers the rapid changes in the field of fire prevention technology within the past decade, the increasing of numbers of fire personnel and personnel from allied professions, and the publication of national standards as it relates to fire prevention and fire inspections.

Course Hours: 15
Course Fee: \$30.00

RAPID INTERVENTION TEAM OPERATIONS – FF159

This newly revised course is a comprehensive program designed to prepare experienced firefighters for the difficult job of rescuing other firefighters from a structure fire incident. The course emphasizes the importance of Rapid Intervention Teams (DIT) being composed of veteran, well trained, and physically fit firefighters. Major course topics include: MAY-DAY procedures; Rapid Intervention Team search techniques; downed firefighter assessment; air changeover procedures; drags and carries; extrication; 2:1 lowering systems; sub-level rescues; ladder rescues; the "Denver" drill; the "Pittsburgh" drill; communications; and accountability. The first four hours of the class are classroom with the remaining 16-hours consisting of hands-on practical training.

This course requires a high degree of physical fitness and the ability to cope with physically and mentally demanding situations. Course prerequisites are a minimum of three years of active fire service experience; completion of either of the following courses - *F100 Recruit Firefighter 1 Course*; *F102 Basic/Live Firefighting*; or *FF100 Basic Firefighting & FF101 Live Firefighting*. Note: Due to equipment and logistical requirements to conduct this program, this class can only be conducted at selected locations.

Course Hours: 30
Course Fee: \$60.00

FIRE PREVENTION FOR FIRST RESPONDERS AND SMALL DEPARTMENTS - FF160

This course is designed to provide the student with the knowledge and skills to become an advocate of the importance of fire prevention and how it ties to the overall mission of an effective fire department by recognizing the community's risk from fire and identifying solutions and resources aimed at addressing their community's fire and injury challenges. The course stresses awareness, advocacy, and motivational content needed by those who traditionally have been focused on operations (suppression, EMS, etc.) and who seek to learn new successful approaches appropriate for communities of all sizes, but most especially America's smaller communities. Course tools include: lessons learned from other communities, resources available, and the means and value of building partnerships and coalitions.

Course Hours: 15

Course Fee: \$30.00

INCIDENT COMMAND SYSTEM FOR EMERGENCY MEDICAL SERVICES

– FF161

This course is designed to introduce the student to the concepts of Emergency Medical Services (EMS) – specific Incident Command System (ICS) through lecture and guided discussion. The student will use scenarios, case studies, graphics, and role-play to demonstrate the understanding and application of the concepts. Upon completion of this course the student should be able to implement an Incident Command System at small or medium sized EMS related incidents and manage the incident during the initial set-up and operation or until the line supervisor arrives on the scene and assumes command.

Course prerequisites are prior ICS course work or working knowledge of ICS and a minimum of a medical first responder level of training and certification.

Course Hours: 15
Course Fee: \$30.00

EMERGENCY RESPONSE TO TERRORISM: AWARENESS – FF162

This course is designed to teach the student how to recognize the conditions and indicators, which may identify a potential terrorist act, and the procedures for contacting appropriate authorities. The student will be capable of using the time, distance, and shielding process as protections measures against chemical, biological, radiological, nuclear, or explosive incidents (CBRNE). Students will understand and be familiar with the purpose for the Operation Security (OPSEC) and the Critical Infrastructure Protection (CIP) process. Other course topics include: three roles of the Incident Command (IC) associated with a terrorism incident; the five “Golden Rules of Unified Command”; and the primary indicators to transfer from the emergency phase, to the recovery phase, to the termination phase of a terrorism incident.

Course Hours: 15
Course Fee: *\$30.00

**Emergency Response to Terrorism Course fees are currently covered through federal grant funding and are offered at no cost to Tennessee emergency personnel.*

EMERGENCY RESPONSE TO TERRORISM: TACTICAL CONSIDERATIONS – EMERGENCY MEDICAL SERVICES – FF163

This course is designed for the first on-the-scene responding EMS personnel with the responsibility to render patient care to victims of potential terrorist incidents. The student will be trained in security considerations, identifying signs of terrorism, anticipating unusual response circumstances, assessing information, and initiating self-protection actions. The student will be able to apply their knowledge of terrorist event response procedures as it relates to: providing patient care, identifying and preserving evidence, managing site safety, documenting the event, and debriefing personnel.

Course Hours: 15
Course Fee: *\$30.00

**Emergency Response to Terrorism Course fees are currently covered through federal grant funding and are offered at no cost to Tennessee emergency personnel.*

EMERGENCY RESPONSE TO TERRORISM: STRATEGIC CONSIDERATIONS FOR COMMAND OFFICERS – FF164

This course is designed for the senior-level officer(s) who may be responsible for command of incidents involving terrorism. This course is intended to build upon existing skills as an Incident

Commander and knowledge of terrorism from professional experience or from the *Emergency Response to Terrorism: Basic Concepts (ERT: BC)* or *Emergency Response to Terrorism: Self-Study (ERT: SS)* courses. The class will assist the command officer in preparing an effective response to the consequences of terrorism. For the response to be effective, plans must be in place to guide responders in managing the incident. Incident Commanders must be prepared to operate as part of a multi-agency, multi-discipline, and multi-jurisdictional response. To address the command and control challenges that likely will confront the Incident Commander; the class consists of lecture supported by case studies and practice scenarios. This will enable the students to apply their knowledge of pre-incident planning, managing emergency incidents, and operating as part of a Unified Command structure.

The primary target audience for this course is individuals (chief officers, emergency managers, shift captains, etc.) who hold command-level positions in their emergency response organizations. It is recommended that students participating in this program have taken the following courses: *Incident Command System*, and *Emergency Response to Terrorism: Basic Concepts (ERT: BC)*, or equivalent.

Course Hours: 15
Course Fee: *\$30.00

**Emergency Response to Terrorism Course fees are currently covered through federal grant funding and are offered at no cost to Tennessee emergency personnel.*

AERIAL APPARATUS FAMILIARIZATION – FF165

This course is designed to provide generic training on aerial apparatus operations and their tactical use. The program is designed so that the instructor can incorporate specific training elements on the host department's type of aerial apparatus. In order to do this, the host department will be required to furnish in advance the operations manual and related technical materials on the specific aerial device.

Course Hours: 15
Course Fee: \$30.00

CODES ENFORCEMENT PROGRAM

Course Listing

INTRODUCTION TO CODES PRINCIPLES AND APPLICATIONS - C100

This course provides code enforcement officials with an overview and application of building and fire codes and how codes are interpreted. Topics include terminology, construction types, code familiarization, plans review, and enforcement methods.

Course Hours: 21
Course Fee: \$145.00

COMPUTERS IN CODES ENFORCEMENT - C101

This course concentrates on computer applications in the code enforcement discipline and covers terminology, security, electronic mail, word processing, spread sheets, code enforcement software, and storing, retrieving and compiling data.

Course Hours: 14

Course Fee: \$95.00

LEGAL ASPECTS OF CODE ADMINISTRATION - C102

This course provides code enforcement officials with a broad understanding of national and state laws affecting property and code compliance. Topics include administrative law, property law, liability, and negligence.

Course Hours: 7
Course Fee: \$45.00

ZONING INSPECTOR AND PROPERTY STANDARDS – C103

This course covers the fundamentals of interpreting zoning and property standards. Topics include receiving and recording complaints, complaint investigations, identifying violations, issuing notices, evidence file development, public presentations and providing information to the public.

Course Hours: 7
Course Fee: \$45.00

HOW TO PREPARE FOR A CERTIFICATION EXAM - C104

This course provides the student with general preparatory information for certification examinations. Topics include the use of reference books and materials, exam format, compiling a study guide and maximizing study time.

Course Hours: 7
Course Fee: \$45.00

RULES AND REGULATIONS GOVERNING CONTRACTORS, ENGINEERS AND ARCHITECTS - C105

This course covers the rules, regulations and state laws that govern contractors, engineers and architects. Topics include licensing requirements, projects that require licensed contractors, engineers or architects, and violations and penalties.

Course Hours: 7
Course Fee: \$45.00

INTRODUCTION TO PLANS REVIEW - C106

This course provides instruction in basic blueprint reading skills including terminology and symbols, site plans, floor plans, and elevation and cut details.

Course Hours: 28
Course Fee: \$190.00

APPLICATIONS OF CODE MATHEMATICS - C107

This course presents the fundamentals of code mathematics, math calculations and conversions. Building calculations include allowable height and area, square footage and cubic footage of areas that are rectangular and non-rectangular having flat and vaulted roofs or ceilings, occupant load, and egress requirements. Plumbing calculations include occupant loads, fixture requirements and fixture loads, and pipe sizing. Mechanical calculations include unit sizing, duct and register sizing, and allowable lengths of ducts. Electrical calculations include voltage drop, box fill and conduit fill.

Course Hours: 7
Course Fee: \$45.00

ACCESSIBILITY INSPECTOR AND RELATED CODE APPLICATIONS - C108

This course concentrates on construction, installation, inspection requirements, techniques, and the procedures necessary to provide the knowledge needed to assure the minimum code requirements for barrier free design are met. Topics include accessibility requirements, fixture locations, and travel distances.

Course Hours: 7
Course Fee: \$45.00

CERTIFIED BUILDING OFFICIAL LEGAL AND MANAGEMENT – C109

This course provides codes enforcement administrators with the organizational, regulatory and reporting aspects of management. Topics include administrative management, financial management, records management and personnel management. Additional topics include definitions, code adoption, code enforcement, land use and property standards, and due process.

Course Hours: 14
Course Fee: \$95.00

CERTIFIED BUILDING OFFICIAL TECHNOLOGY – C110

This course will provide the student with an overview of the technical codes. Architectural, structural and building systems plans review procedures are addressed. Additional topics include definitions, code enforcement and code interpretations.

Course Hours: 21
Course Fee: \$145.00

SIGNIFICANT CODE CHANGES - C111

This course covers the most significant code changes approved during the most recent code change cycle. It also explains the code change process and how to participate.

Course Hours: 7
Course Fee: \$45.00

OVERVIEW OF THE INTERNATIONAL ENERGY CONSERVATION CODE (RESIDENTIAL) – C112

This overview course provides the student with a working knowledge of the International Energy Conservation Code based on residential requirements. Topics include construction, installation requirements and inspections. Additional topics include forms and checklists.

Course Hours: 7
Course Fee: \$45.00

OVERVIEW OF THE INTERNATIONAL RESIDENTIAL CODE – C113

This overview course provides the student with basic knowledge of the most current edition of the International Residential Code. Topics include the major components of the structural, mechanical/gas, plumbing and electrical requirements.

Course Hours: 7
Course Fee: \$45.00

INSECTION OF STORAGE OCCUPANCIES – C114

This overview course provides codes enforcement officials with a broad understanding of the rules and regulations affecting code compliance in storage occupancies. Topics include types of storage occupancies and regulations for hazardous and non-hazardous storage.

Course Hours: 7
Course Fee: \$45.00

BUILDING INSPECTOR I - CB100

This course is designed as a preparatory course to assist the new inspector in preparing to sit for the ICC, Commercial Building Inspector Exam. This course is taught using the ICC format and provides the student with the knowledge and skills needed to examine buildings and structures for compliance with the International Building Code. Topics include structural components, non-structural components and inspection / enforcement methods.

Course Hours: 35
Course Fee: *\$240.00

*This basic course will be reduced to \$40.00 to qualified individuals if funds are available. Contact TFACA for more information.

BUILDING INSPECTOR II - CB101

This course concentrates on construction and inspection requirements, techniques and procedures, and the technical knowledge needed to assure that the minimum requirements for commercial construction are met. This is an intermediate course dealing with complex construction and fire protection requirements for single and multi-story buildings in excess of 60,000 total square feet.

Course Hours: 21
Course Fee: \$145.00

RESIDENTIAL BUILDING PRINCIPLES AND CODE APPLICATIONS - CB102

This course provides an understanding of simple residential construction, primarily wood frame construction. Topics include foundation walls, structural components, means of egress and fire separation requirements.

Course Hours: 28
Course Fee: \$190.00

*This basic course will be reduced to \$40.00 to qualified individuals if funds are available. Contact TFACA for more information.

COMMERCIAL BUILDING PRINCIPLES AND CODE APPLICATIONS - CB103

This course concentrates on construction and inspection requirements, techniques and procedures, and the technical knowledge needed to assure that the minimum requirements for commercial construction are met. This is an advanced course dealing with complex construction and fire protection requirements of single and multi-story buildings of unlimited height and area requirements.

Course Hours: 21
Course Fee: \$145.00

PROPERTY MAINTENANCE AND HOUSING CODE APPLICATIONS - CB104

This course concentrates on construction and inspection requirements, techniques and procedures, and the technical knowledge to assure that rehabilitated residential structures comply with the minimum requirements. Topics include the rehabilitation process, construction materials, fundamentals of construction, and fundamentals of equipment systems.

Course Hours: 7
Course Fee: \$45.00

EXISTING BUILDING PRINCIPLES AND CODE APPLICATIONS - CB105

This course provides the basic knowledge and skills to guide the inspection of existing buildings and structures. Topics include inspection practices and procedures, fire prevention application, and building maintenance applications.

Course Hours: 7
Course Fee: \$45.00

MODEL ENERGY CODE PRINCIPLES AND CODE APPLICATIONS - CB106

This is a comprehensive course which concentrates on construction, installation and inspection requirements, techniques and procedures, and the technical knowledge needed to assure that the minimum requirements of the model energy code are met. Topics include buildings that must comply, forms and checklists, and the compliance process.

Course Hours: 7
Course Fee: \$45.00

COMMON EXCAVATING AND GRADING REQUIREMENTS - CB107

This course covers excavation and grading requirements. Topics include terminology, cuts, fills, slopes, materials, drainage, terracing and erosion controls.

Course Hours: 7
Course Fee: \$45.00

BUILDING CONSTRUCTION COMBUSTIBLES AND NON-COMBUSTIBLES - CB108

This course provides an understanding of combustibles and non-combustible construction materials. Non-combustible materials include steel, concrete, and masonry products. Combustible materials include wood, laminated veneer lumber, paper, and plastics. Other topics include interior wall coverings and fire retardant materials.

Course Hours: 7
Course Fee: \$45.00

PROPERTIES OF WOOD FRAME CONSTRUCTION - CB109

This course concentrates on principles and procedures for determining the design values for wood frame construction. Topics include the appropriate method for using basic code-referenced design documents to determine correct design values for floor, wall and roof framing components. Construction practices and inspection requirements are also discussed.

Course Hours: 7
Course Fee: \$45.00

STRUCTURAL STEEL INSPECTION AND CODE APPLICATIONS - CB110

This course concentrates on construction, installation and inspection requirements, techniques and procedures, and the technical knowledge needed to assure that the minimum requirements for the installation of structural steel are met. Topics include terminology, steel shapes and sizes, and identification of welds, cables and bolts.

Course Hours: 7
Course Fee: \$45.00

MANUFACTURED/MODULAR HOME PRINCIPLES AND CODE APPLICATIONS - CB111

This course concentrates on construction, installation, inspection requirements, techniques, procedures, and the technical knowledge needed to assure the minimum requirements for manufactured and modular homes are met. Topics include terminology, factory standards, and foundation/anchoring/permit requirements.

Course Hours: 7
Course Fee: \$45.00

NON-STRUCTURAL PLANS REVIEW - CB112

This course concentrates on fire and life safety design and construction requirements to assure that the minimum requirements for occupancy classification, building parameters, construction type, separation requirements, means of egress and fire protection requirements are met. This course focuses primarily on commercial construction.

Course Hours: 21
Course Fee: \$145.00

SPECIAL OCCUPANCY PLANS REVIEW AND CODE APPLICATIONS - CB113

This course concentrates on construction, installation, and inspection requirements, techniques and procedures, and the technical knowledge needed to assure the minimum requirements are met. Topics include terminology, egress requirements, tenant separation requirements and fire protection requirements.

Course Hours: 7
Course Fee: \$45.00

SEISMIC INSPECTION AND PLANS REVIEW - CB114

This is a comprehensive course, which concentrates on construction, installation and inspection requirements, techniques and procedures, and the technical knowledge to assure that the minimum requirements for seismic standards are met. Topics include terminology, building code seismic requirements, seismic maps and seismic anchoring requirements.

Course Hours: 14
Course Fee: \$95.00

MEANS OF EGRESS - CB115

This course concentrates on construction, inspection requirements, techniques and procedures and the technical knowledge needed to assure minimum requirements of egress related elements of building construction are met. A review of the applicable requirements of residential and commercial construction is included.

Course Hours: 7
Course Fee: \$45.00

CONCRETE AND MASONRY PRINCIPLES AND CODE APPLICATIONS - CB116

This course concentrates on construction and inspection requirements, techniques and procedures and the technical knowledge needed to assure minimum requirements for the installation of concrete or masonry components are met. Additional concentration on soil properties, special soil conditions, footings, foundation walls, and retaining walls of both residential and commercial applications is also included.

Course Hours: 7
Course Fee: \$45.00

PERFORMANCE BASED EQUIVALENCY EVALUATIONS - CB117

This course provides building plan reviewers with the knowledge of construction material standards and substitutes for those standards. Topics include alternative construction materials and properties, equivalency criteria and applications, and procedures for approving substitutes.

Course Hours: 7
Course Fee: \$45.00

SEISMIC AND WIND BRACING REQUIREMENTS FOR WOOD FRAME CONSTRUCTION – CB118

This course provides the information necessary to the student to properly understand and use the *Standard Building Code (SBC)*, *International Residential Code (IRC)* and the *International Building Code (IBC)* for wood-frame construction of walls. The student gains knowledge on the proper techniques for framing with traditional and engineered wood products. Standards referenced in the code will be reviewed and their application will be illustrated. Special attention is given to engineered wood products. Particular areas of emphasis include installation requirements unique features peculiar to braced wall requirements for seismic-resistive construction. The purpose of this course is to provide the student with the required information needed to enable him/her to be familiar with and understand the *SBC*, *IRC* and *IBC* conventional wood-frame construction and engineered wood-frame construction with respect to wall bracing and framing.

Course Hours: 7
Course Fee: \$45.00

CHANGE OF OCCUPANCY CODE APPLICATIONS – CB119

This course covers the review procedures that should be followed if a change of occupancy is made. Types of construction, occupancy classifications and means of egress requirements are covered. Other topics include fire protection systems, rated assemblies and occupant loads.

Course Hours: 7
Course Fee: \$45.00

SPECIAL USES AND MIXED OCCUPANCIES – CB120

This course focuses on the particular details of special uses and mixed occupancy classifications. Unique building designs are thoroughly discussed. Covered malls, high-rises, underground buildings and atriums, among others, are examined. Additional topics include explanations and exercises involving incidental uses and mixed occupancies.

Course Hours: 7
Course Fee: \$45.00

GENERAL ELECTRICAL CODE CONCEPTS - CE100

This course provides the student with a general overview of the National Electrical Code (NEC). It covers the basic concepts for construction, installation, inspection requirements, techniques and procedures. Code requirements related to planning and construction for residential and commercial construction are discussed.

Course Hours: 7
Course Fee: \$45.00

RESIDENTIAL ELECTRICAL PRINCIPLES AND CODE APPLICATIONS - CE101

This course concentrates on construction, installation and inspection requirements, techniques and procedures, and the technical knowledge needed to assure compliance with the national electrical code requirements related to planning and construction for residential construction.

Course Hours: 14
Course Fee: \$95.00

COMMERCIAL ELECTRICAL PRINCIPLES AND CODE APPLICATIONS - CE102

This course focuses on construction, installation and inspection requirements, techniques and procedures, and the technical knowledge needed to assure that compliance with the minimum national electrical code requirements related to planning and construction for commercial construction are met.

Course Hours: 21
Course Fee: \$145.00

COMMERCIAL ELECTRICAL PLANS REVIEW - CE103

This course concentrates on design and construction requirements to assure that the minimum requirements for materials, wire size, conduit requirements, voltage drop, panel size, and penetrations of rated assemblies are met. The course deals primarily with electrical applications in commercial buildings.

Course Hours: 21
Course Fee: \$145.00

FIRE INSPECTOR I – INTERNATIONAL CODE COUNCIL (ICC) - CF100 ICC

This course is designed as a preparatory course to assist the new inspector in preparing to sit for the ICC Fire Inspector I Exam. This class is taught using the ICC format and provides the student with the knowledge and skills needed to examine buildings and structures for compliance with the NFPA Standards and the International Fire Service Training Association (IFSTA) Manual. Topics include private fire protections systems, building construction, life safety codes and inspections / enforcement methods.

Course Hours: 35
Course Fee: \$240.00

*This basic course will be reduced to \$40.00 to qualified individuals if funds are available. Contact TFACA for more information.

FIRE INSPECTOR I – NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) - CF100 NFPA

This course is designed as a preparatory course to assist the new inspector in preparation of sitting for the NFPA Fire Inspector I Exam. This course is taught using the NFPA format and provides the student with the knowledge and skills needed to examine buildings and structures to determine the compliance with NFPA standards and the International Fire Service Training Association (IFSTA) Manual. Topics include private fire protection systems, building construction, life safety codes and inspection/enforcement methods.

Course Hours: 35
Course Fee: \$240.00

*This basic course will be reduced to \$40.00 to qualified individuals if funds are available. Contact TFACA for more information.

FIRE INSPECTOR II – NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) - CF101 NFPA

This course is taught using the NFPA format and concentrates on construction and inspection requirements, techniques and procedures, and the technical knowledge needed to ensure that the minimum requirements are met. This is an advanced course dealing with complex construction and fire protection systems. Topics include protective systems and equipment, building fire safety hazardous materials and special hazards.

Course Hours: 28
Course Fee: \$190.00

FIRE INSPECTOR II – INTERNATIONAL CODE COUNCIL (ICC) - CF101 ICC

This course is taught using the ICC format and concentrates on construction and inspection requirements, techniques and procedures, and the technical knowledge needed to ensure that the minimum requirements are met. This is an advanced course dealing with complex construction and fire protection systems. Topics include protective systems and equipment, building fire safety hazardous materials and special hazards.

Course Hours: 28
Course Fee: \$190.00

FIRE SAFETY PLANS REVIEW - CF102

This is a comprehensive course, which concentrates on design and construction requirements to assure that the minimum requirements for fire safety are met. Topics include terminology, site requirements, hazardous materials, protection systems, special hazards, and National Fire Protection Association (NFPA) standards.

Course Hours: 28
Course Fee: \$190.00

BUILDING FIRE PROTECTION SYSTEMS - CF103

This is a comprehensive course which concentrates on construction, installation and inspection requirements, techniques and procedures, and the technical knowledge needed to assure that minimum standards for building fire protection systems are met. Topics include terminology, standpipes, types of sprinkler systems, types of alarm systems, system tests, water pressure and hydrants, and required inspections.

Course Hours: 7
Course Fee: \$45.00

FIRE PROOFING METHODS AND PROTECTION OF RATED ASSEMBLIES - CF104

This course concentrates on construction and inspection requirements, techniques and procedures, and the technical knowledge needed to assure that minimum requirements related to fire proofing and protection of rated assemblies are met. It includes a review of applicable residential and commercial construction requirements.

Course Hours: 7
Course Fee: \$45.00

FIRE SPRINKLER DESIGN AND PLANS REVIEW - CF105

This course provides inspectors with the knowledge and skills necessary to review the design and operation of fire sprinkler systems. Topics include types of sprinkler systems, standpipe systems, water supply and pressure, installation and maintenance requirements, and inspection.

Course Hours: 14
Course Fee: \$95.00

NATIONAL FIRE PROTECTION ASSOCIATION LIFE SAFETY CODE PRINCIPLES - CF106

This is a comprehensive course, which concentrates on construction, installation and inspection requirements, techniques and procedures and the technical knowledge needed to assure that the

minimum requirements are met. Topics include terminology, plans review, building construction, egress requirements, occupancy classifications, and building protection systems.

Course Hours: 21
Course Fee: \$145.00

STORAGE TANKS FOR COMBUSTIBLES PRINCIPLES AND CODE APPLICATIONS - CF107

This course concentrates on construction, installation and inspection requirements, techniques and procedures, and the technical knowledge needed to assure that minimum requirements are met. Topics include terminology, site requirements, materials, above and below ground tanks, hazardous and non-hazardous combustible materials and containment requirements.

Course Hours: 7
Course Fee: \$45.00

OVERVIEW OF THE INTERNATIONAL FIRE CODE – CF108

This course provides the student with a working knowledge of the International Fire Code. Topics include requirements for occupancy, building construction, fire service features of buildings, fire protections systems and means of egress requirements.

Course Hours: 7
Course Fee: \$45.00

OVERVIEW OF NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 72 NATIONAL FIRE ALARM CODE – CF109

This course covers the fundamentals of fire alarms and detection systems and code requirements. (These requirements are occupancy specific; the student needs a basic understanding of occupancy classifications.) Topics include terminology, initiating devices, inspection, testing and maintenance. The course additionally addresses current issues in fire protection such as evacuation, security and integrated building systems.

Course Hours: 7
Course Fee: \$45.00

OVERVIEW OF NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 30 AND 33: FLAMABLE AND COMBUSTIBLE LIQUIDS – CF110

This course examines typical problems associated with the use of flammable and combustible liquids and addresses the specific code requirements of NFPA 30 and 33 regulating their use. The use of flammable and combustible liquids in industrial applications is covered. Topics include proper storage and handling requirements, ventilation and proper fire protection requirements.

Course Hours: 7
Course Fee: \$45.00

OVERVIEW OF NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) LIFE SAFETY CODE (101) – CF111

This overview of the Life Safety Code covers construction, installation and inspection requirements, techniques and procedures, and the technical knowledge needed to ensure minimum requirements are met. Topics include terminology, plans review, building construction, egress requirements, occupancy classification, and building protection systems

Course Hours: 7

Course Fee: \$45.00

GENERAL MECHANICAL AND GAS CODE CONCEPTS - CM100

This course gives the student an overview of mechanical and gas installations and covers the basic concepts for construction, installation and inspection requirements, techniques, and procedures. Code requirements related to planning and construction for residential and commercial systems are discussed.

Course Hours: 7
Course Fee: \$45.00

RESIDENTIAL MECHANICAL AND GAS PRINCIPLES AND CODE APPLICATIONS - CM101

This course focuses on construction and inspection requirements, techniques and procedures, and the technical knowledge needed to assure the minimum requirements for residential mechanical installations are met. The fundamentals of heat and air conditioning systems, terminology, and performing various calculations are also covered.

Course Hours: 14
Course Fee: \$95.00

COMMERICAL MECHANICAL AND GAS PRINCIPLES AND CODE APPLICATIONS - CM102

This course concentrates on construction and inspection requirements, techniques and procedures, and the technical knowledge needed to assure that the minimum requirements for commercial mechanical installations are met. This course deals with combustion and venting, materials and fittings, duct and venting systems, and fire protection requirements.

Course Hours: 21
Course Fee: \$145.00

COMMERICAL MECHANICAL AND GAS PLANS REVIEW - CM103

This course concentrates on design and construction requirements to assure that the minimum requirements for materials, duct size, unit size, gas pipe size and penetrations of rated assemblies are met. This course deals primarily with mechanical and gas applications in commercial structures.

Course Hours: 21
Course Fee: \$145.00

OVERVIEW OF THE INTERNATIONAL MECHANICAL AND FUEL GAS CODE – CM104

This course covers the basics of the International Mechanical Code and the International Fuel Gas Codes. The overview will help the student in understanding and applying these codes. Topics include piping (including sizing), exhaust systems, definitions, combustion air calculations, and chimneys and vents.

Course Hours: 7
Course Fee: \$45.00

GENERAL PLUMBING CODE CONCEPTS - CP100

This course provides the student an overview of plumbing installation concepts and covers the basic concepts for construction, techniques and procedures, installation and inspection requirements. Code requirements related to planning and construction for residential and commercial construction are also discussed.

Course Hours: 7
Course Fee: \$45.00

RESIDENTIAL PLUMBING PRINCIPLES AND CODE APPLICATIONS - CP101

This course focuses on construction and inspection requirements, techniques and procedures, and the technical knowledge needed to assure the minimum requirements for residential plumbing are met. This course deals with the use of the code, basic plumbing terminology, and how to perform various plumbing calculations.

Course Hours: 14
Course Fee: \$95.00

COMMERCIAL PLUMBING PRINCIPLES AND CODE APPLICATIONS - CP102

This course concentrates on construction, inspection requirements, techniques and procedures, and the technical knowledge needed to assure that the minimum requirements for commercial plumbing are met. This course pertains to general regulations, materials, required fixtures, drainage and venting principles, and storm drain requirements.

Course Hours: 21
Course Fee: \$145.00

COMMERCIAL PLUMBING PLANS REVIEW - CP103

This is a comprehensive course that concentrates on design and construction requirements to assure that the minimum requirements for materials, water pressure, pipe sizing, and protection of penetrations in rated assemblies are met. This course focuses primarily on plumbing applications in commercial buildings.

Course Hours: 21
Course Fee: \$145.00

OVERVIEW OF THE INTERNATIONAL PLUMBING CODE - CP104

This overview provides the student with a working knowledge of the International Plumbing Code and covers construction requirements, inspection requirements and techniques and procedures. The course pertains to general regulations, materials, required fixtures, drainage and venting principles and storm drain requirements.

Course Hours: 7
Course Fee: \$45.00

INTERNATIONAL CODE COUNCIL (ICC) CERTIFICATION PROGRAM FOR CODE PROFESSIONALS

The student should be aware that instruction in these courses is designed to teach an understanding of the code, proper use of the code-book and how to administer the code. The courses are not designed to teach the certification exam. Individuals are responsible for contacting ICC for all certification examination applications and exam fees. For more information, please contact ICC Exam Services at 205.591.1853 or www.iccsafe.org.

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) CERTIFICATION PROGRAM FOR CODE PROFESSIONALS

The student should be aware that instruction in these courses is designed to teach an understanding of the code, proper use of the code-book and how to administer the code. The courses are not designed to teach the certification exam. Individuals are responsible for contacting NFPA for all certification examination applications and exam fees. For more information, please contact NFPA's Certification Department at 617.984.7497 or www.nfpa.org.